New York Feb. 8th 1854

Dear Sir

The Secretary of the Treasury has directed me to add another Story to the Assay Building. - It may therefore become necessary to transpose all our apparatus, which you are preparing, up one story, which would bring the Precipitating and Reducing Vats, Hydraulic Press, and Drying Furnaces from a story 13 feet 8 inches in the clear to one 10 feet 8 inches in the clear. - Would this be sufficient? - I fear, if it is indispensible, raise the upper floor, but the expense and trouble would be considerable, which I wish to avoid. - How would it do to leave the Assaying Department where it is, and transpose the Granulating & Fine Gold Furnaces to the story above (third above basement) which is of the same height (13 feet 8 inches in the clear) of the principal floor, where they were designed to be? - If you think of any other objections to carrying up a story, please advise me by return of mail.

Yours very truly

Geo. W. Cullum
Capt. U.S. Engrs Supt.

Prof. J. C. Booth

1854
February 8th
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N. Y.